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## We claim:

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1. A programmable method of managing and tracking blood products between a plurality of remote patient facilities and a central blood testing facility comprising the steps of:

cobtaining a blood specimen from
each patient who requires a blood reserve;
selecting a blood product for
cross-matching with each said patient specimen;

specimen and said blood product to determine their compatibility with one another; and

cross-matching each said patient

preparing a patient identification database of each of said blood products and patient specimens determined to be compatible and storing information in said database correlating each of said blood products and patient specimens.

2. The method according to claim 1 wherein the step of storing information is further characterized by storing each patient's special needs, prior transfusion reaction history, autologous blood availability, directed blood components, blood type and patient specimen expiration date.

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3. The method according to claim 1 including the step of assigning said blood products and said patient specimens to a location within said facility and tracking any movement of specimens to other locations.

- 4. The method according to claim 1 including the step of determining types of blood attributes of each of said blood products and said patient specimens.
- 5. The method according to claim 1 including the step of determining compatibility of said blood product and said patient specimen by comparing the types of blood attributes thereof.
- 6. The method according to claim 1 further characterized by cross-matching a segment of said blood product and said patient specimen at said facility, assigning said segment and said patient specimen to a location in said facility, and recording said location in said database.
- 7. The method according to claim 1 including the step of selectively displaying the absence or presence of each item of information stored including prior transfusion reaction history, autologous blood availability, directed

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blood components, blood type and patient specimen expiration date.

- 8. The method according to claim 1 wherein the step of cross-matching includes the step of producing a product identification tag and attaching to each blood component found to be compatible.
- 9. The method according to claim 9 including the step of comparing the antigens and antibodies in each of said blood products and said patient specimens to determine whether each is present in each segment of said blood product and said patient specimen tested and storing said information in said database.
- 10. In a programmable blood management system for managing and tracking blood products between a plurality of hospitals and a central blood test facility wherein a database is provided for recording information and a screen is provided for displaying said information, the method comprising the steps of:

obtaining a blood specimen from each patient requiring a blood reserve for possible transfusion;

assigning a segment of a blood

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product for\cross-matching;

cross-matching each said segment and said patient specimen at said facility to determine their compatibility with one another; identifying each said segment and said patient specimen determined to be compatible with patient identification information; and recording said patient

identification information on said database.

- 11. In a system according to claim 10 further characterized by determining blood type attributes of each of said blood products and said patient specimens prior to said cross-matching.
- 12. In a system according to claim 10 including the step of testing the compatibility of said blood type attributes prior to said crossmatching.
- 13. In a system according to claim 12 characterized by periodically updating said blood type attributes and recording said information in said database.
- 14. In a system according to claim 10 including the step of tracking the location of each said segment and said patient specimen by

recording its movement between said test facility and patient location.

- 15. \In a system according to claim 10 including the step of recording blood attributes of each said pattent specimen in said database.
- 16. In a system according to claim 10 including the step of recording prior transfusion reaction history of each said patient in said database.
- 17. In a system according to claim 10 including the step of recording autologous blood availability in said database.
- 18. In a system according to claim 10 including the step of recording blood type of each said blood product and said patient specimen.
- 19. In a system according to claim 10 including the step of recording the specimen expiration date of each said segment and said patient specimen.
- 20. A system for managing blood products and tracking their movement between a central blood test facility and a plurality of

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	5	hospitals wherein a computer is provided for processing data including a screen for displaying information, said system comprising:
		first means including a database
		for entering information pertaining to each
		patient requiring a blood reserve;
	10	sedond means for entering blood
		type information for a blood specimen from each
		said patient;
		third means for recording a blood
£3 . 86		type for a blood product assigned to each said
1] []	15	patient; and
#1] 1.1		fourth means for recording on said
14) [1]		database results of cross matching of each said
ļu Lī		patient specimen and said blood product.
2 2		
C) Lij		21. The system according to claim 20
11)		including fifth means for recording special needs
Total them, areas counts seems seems set to 11 de		of each said patient on said database including
		means for indicating the presence of said special
	5	needs.
		22. The system according to claim 20
		including sixth means for recording the prior

prior transfusion reaction.

including means for indicating the presence of a

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	23.	The :	system	according	g to	claim	20
including	seven	th me	eans fo	or record	ing a	autolog	jous
blood avai	labil	ity a	and its	location	n foi	c each	said
patient in	cludi	ng me	eans fo	or indicat	ing	the	
presence o	of an	auto	logous	donation	for	said	
patient.							

- 24. The system according to claim 20 including eighth means for recording directed blood donations for each said patient including means for indicating the presence of said directed blood donations.
- 25. The system according to claim 20 including ninth means for recording the expiration date of each said patient specimen on said database including means for indicating the expiration date of each said blood specimen which is current and non-expired.
- 26. The system according to claim 20 including tenth means for comparing blood attributes of each said patient specimen and said blood product.
- 27. The system according to claim 20 including means for cross-matching said segment and said patient specimen at said facility and

means for tracking novement of each said segment and said patient specimen between said facility and said hospitals.

28. The system according to claim 20 including eleventh means for recording components of said blood products which have been reserved for said patient including means for indicating the presence of said reserved components in inventory.

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29. A programmable blood management system for managing and tracking blood products for use between a central blood test facility and one or more remote patient facilities wherein a computer is provided for processing data, a database is provided for recording information and a screen is provided for displaying said information recorded comprising:

means for recording information identifying each patient requiring a blood reserve on said database;

means for obtaining a blood specimen from each said patient;

means for assigning a segment of a blood product for cross-matching:

means for cross-matching each said segment and said patient specimen at said facility

to determine their compatibility with one another;

means for identifying each said
segment and said patient specimen determined to be
compatible; and

means for assigning said segment and said patient specimen to a location in said facility.

30. A system according to claim 29 including means for entering blood attributes of said blood specimen and said segment on said database; and means for comparing said blood attributes to determine their compatability.

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